



9

SEQUENCE LISTING

<110> GILL, Peter
HUSSAIN, Javaid
LONG, Adam

<120> Improvements in and relating to analysis of DNA

<130> 7500.331USC1

<140> 10/034,692

<141> 2001-12-27

<150> PCT/GB00/02795

<151> 2000-07-24

<150> GB9917307.2

<151> 1999-07-23

<150> GB0009187.6

<151> 2000-04-14

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer sequence designed to act as a molecular beacon and referred to at page 13 of the application.

<400> 1

acgcgctctc ttcttctttt gcgcg

25

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal reporter primer forward sequence designed to optimally prime at 60 degrees C, page 29. r = g or c or a or t

<400> 2

cgacgtggtg gatgtgctar

20

<210> 3

<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at approximately 60 degrees C, page 29.

<400> 3
tgacctggct gactcgactg 20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at 60 degrees C, page 30.

<400> 4
tgccgtggct gacctgagac 20

<210> 5
<211> 20
<212> DNA
<213> Homo sapiens

<400> 5
gtattttcgt ctggggggta 20

<210> 6
<211> 21
<212> DNA
<213> Homo sapiens

<400> 6
gtctgtcttt gattcctgcc c 21

<210> 7
<211> 20
<212> DNA
<213> Homo sapiens

<400> 7
tttgattcct gcctcatccc 20

<210> 8
<211> 20

<212> DNA
 <213> Homo sapiens

 <400> 8
 atattacagg cgaacataacc 20

 <210> 9
 <211> 27
 <212> DNA
 <213> Homo sapiens

 <400> 9
 gcttgtagga cataataata acaatta 27

 <210> 10
 <211> 22
 <212> DNA
 <213> Homo sapiens

 <400> 10
 cagagatgtg tttaagtgt gt 22

 <210> 11
 <211> 19
 <212> DNA
 <213> Homo sapiens
 <223> r = g or t

 <400> 11
 accagctttg ccagttccr 19

 <210> 12
 <211> 16
 <212> DNA
 <213> Homo sapiens
 <223> x = c or sa

 <400> 12
 ttccgtgggt gtggcx 16

 <210> 13
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <400> 13
 ggcagagcga ctaaaagcaa a 21

 <210> 14
 <211> 37
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer with an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 47.

<400> 14

cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 15

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human Gc reverse primer with an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 47.

<400> 15

tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 16

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal molecular beacon primer sequence designed to detect universal primer 9G polymorphism, page 47.

<400> 16

acgcgtctctc ttcttctttt gcgcgcgacg tggatgatgt gctag

45

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial reverse primer sequence designed to detect universal reverse 11 primer sequence, page 47.

<400> 17

tgacgtggct gacctgagac

20

<210> 18

<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 18
cgacgtggtg gatgtgctag accagctttg ccagttccg

39

<210> 19
<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 19
cgacgtggtg gatgtgcttc accagctttg ccagttcct

39

<210> 20
<211> 37
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 20
cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 21
<211> 37
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 21
cgacgtggtg gatgtgcttc gttccgtggg tgtggca

37

<210> 22
<211> 41
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc reverse primer attached to an artificial universal primer tag to detect SNP polymorphisms at Gcls/lf, page 48.

<400> 22
tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 23
<211> 45
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9G polymorphism.

<400> 23
acgcgtctc ttcttctttt gcgcgcgacg tggtagatgt gctag

45

<210> 24
<211> 45
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9C polymorphism.

<400> 24
acgcgtctc ttcttctttt gcgcgcgacg tggtagatgt gcttc

45

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal ll sequence, page 48.

<400> 25
tgacgtggct gacctgagac

20

<210> 26
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A Human
Amelogenin sequence forward primer attached to an
artificial universal sequence to detect Amelogenin
X polym.

<400> 26
cgacgtggtg gatgtgcttc tgagccaatg gtaaacctgc c

41

<210> 27
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A Human
Amelogenin sequence forward primer attached to an
artificial universal sequence to detect Amelogenin
Y polym.

<400> 27
cgacgtggtg gatgtgctag tgagccaatg gtaaacctgc a

41

<210> 28
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A Human
Amelogenin sequence reverse primer attached to an
artificial universal sequence to detect Amelogenin
X/Y polymorphism; n designates inosine..

<400> 28
tgacgtggct gacctgagac cataggaagn gtactggtga gaaaca

46

<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial
molecular beacon forward primer attached to a

universal primer tag to detect universal primer 9G polymorphism.

<400> 29
acgcgctctc ttcttctttt gcgcgcgacg tggatggatgt gctag 45

<210> 30
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal 9C polymorphism, page 49.

<400> 30
acgcgctctc ttcttctttt gcgcgcgacg tggatggatgt gcttc 45

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 31
tgacgtggct gacctgagac 20

<210> 32
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial forward universal primer attached to human Gc1s sequence, page 57.

<400> 32
ctagctggtg gctgtgctag gttccgtggg tgtggcc 37

<210> 33
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial

reverse universal primer attached to human Gc
sequence to detect Gc1s/1f polymorphisms, page 57.

<400> 33
ctagctgggtg gctgtgctag ggcagagcga ctaaaagcaa a 41

<210> 34
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin forward sequence attached to
an artificial universal primer to detect
alpha-1.M1S polym.

<400> 34
ctagctgggtg gctgtgctag aggggaaact acagcacctg ga 42

<210> 35
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin forward sequence attached to
an artificial universal primer to detect alpha-1.S
polym, Fig 11.

<400> 35
ctagcctggt gtgtggctag aggggaaact acagcacctg gt 42

<210> 36
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin reverse sequence attached to
an artificial universal primer to detect
alpha-1.M1S polym.

<400> 36
ctagctgctg tgggtggctag tggatgat atcgtgggtg agt 43

<210> 37
<211> 27
<212> DNA
<213> Homo sapiens

<400> 37
cctgaagcca cacccacgga actggca 27

<210> 38
<211> 18
<212> DNA
<213> Homo sapiens

<400> 38
agttccgtgg gtgtggcc 18

<210> 39
<211> 27
<212> DNA
<213> Homo sapiens

<400> 39
cctgaggcca cacccacgga actggca 27

<210> 40
<211> 27
<212> DNA
<213> Homo sapiens

<400> 40
cctgaggcca cacccaagga actggca 27

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Self
complimentary universal forward reporter primer
artificial sequence, Figure 25c.

<400> 41
ctagctggtg gctgtgctag 20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Self
complimentary universal reverse reporter primer
artificial sequence, Figure 25c.

<400> 42
ctagctggtg gctgtgctag 20